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[1. SB122-001: Controlling Antibiotic Resistant or Highly Virulent Pathogens Through Plasmid Curing](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a novel plasmid curing therapeutic capable of displacing antibiotic resistance and/or virulence causing plasmids from bacteria. Therapeutic interventions are sought that will be efficacious against a range of human pathogens of interest to the DoD. DESCRIPTION: The combined threat of the increasing prevalence of drug-resistant bacteria and a diminishing antibiotic pipeline p ...

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[2. SB122-002: High-resolution, Ultra-sensitive Magnetic Imaging Using an Ensemble of Nitrogen-Vacancy \(NV\) Centers in Diamond](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop compact magnetic field imagers with nT/Hz^{1/2} field sensitivity and sub-micron spatial resolution using an optically-addressed ensemble of NV centers in diamond. DESCRIPTION: Highly sensitive magnetic field imaging systems are important tools in both military and civil sectors, finding applications ranging from the detection of landmines and submarines to the high-resolution ...

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3. SB122-003: Minimally Invasive, Self-Collection of Large Volume Biospecimens

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop advanced technologies that can be self-operated by a patient or a minimally trained operator to collect large volumes/weights of a biospecimen for clinical use, such as diagnostic and remote clinical trials, or for research applications such as biomarker discovery/validation. The majority of diagnostic tests and research assays require blood biospecimens that are traditional ...

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4. SB122-004: Blending Skills Training and STEM Education: Game-Based First-Responder Application

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a mobile application that uses innovative game-based strategies and visualization techniques to teach medical first-responder skills combined with intelligent tutoring systems to teach underlying STEM principles. Game design, architecture, and research approach should allow for the optimization of pedagogical approaches based on performance of the individual learner and across a ...

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5. SB122-005: Innovative Passivation to Increase the Power at Which Laser Diode Fails

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Improve the reliability/lifetime and increase power and performance of high power laser diodes (LD). DESCRIPTION: There is a compelling need for substantially increasing the power and brightness of LD optical-pumps in the 9xx nm spectral range for scaling single-mode narrow-line fiber lasers to high power for DoD high energy laser (HEL) applications. The power and brightness of stat ...

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6. SB122-006: Ultra-Bright Diode Laser Emitters for Pumping High-Power Fiber Amplifiers

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Demonstrate a wavelength-stabilized diode laser system for pumping high-power fiber laser amplifiers consisting of diode laser emitters that are at least ten times brighter than conventional broad-stripe emitters. DESCRIPTION: High average and peak power fiber lasers and amplifiers offer an attractive combination of high efficiency, near diffraction-

limited beam quality, low phase no ...

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7. [SB122-007: Foliage Propagation Model Development to Support New Communications Concepts](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop detailed foliage propagation models applicable to multiple environments that will support creation and analysis of new communications concepts that greatly exceed the operational performance of current systems in these environments. DESCRIPTION: The need for propagation models that extend beyond free space and urban environments into foliage-rich environments is well-known. T ...

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8. [SB122-008: High Amperage Large-scale Electrical Energy Storage](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Demonstrate megawatt (MW) scale electrical energy storage at high charge and discharge rates, high cycle life, and high energy density. DESCRIPTION: Electrical power is transient in nature and effective storage of megawatt scale power is a critical technology to enable forward operating base (FOB) level power management. Currently available batteries are not effective solutions with ...

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9. [SB122-009: Human-centric Coalition Space Situational Awareness](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Demonstrate a cognitive-centric User-Defined Operational Picture (UDOP) capability that allows multi-national teams to maintain a common understanding of the space situation. DESCRIPTION: This effort will apply cognitive science technology to develop human-system interfaces for a multi-national space operations center with a focus on Intelligence, Surveillance and Reconnaissance (I ...

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10. [SB122-010: Space Signatures for Rapid Unambiguous Identification of Satellites](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Define and demonstrate approaches to establish and maintain rapid and reliable positive object identification of individual satellites in orbit through sparse but regular data

collection. DESCRIPTION: Current methodologies supporting the maintenance of the satellite catalog based upon information derived from the Space Surveillance Network are inadequate to enable a proactive approach ...

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